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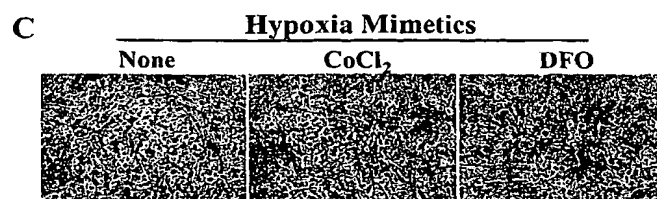
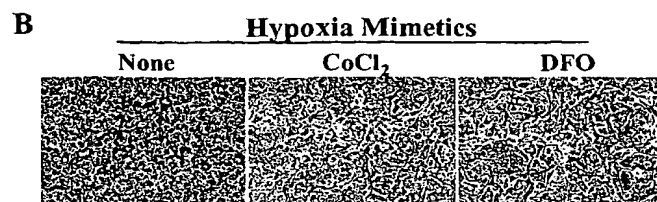
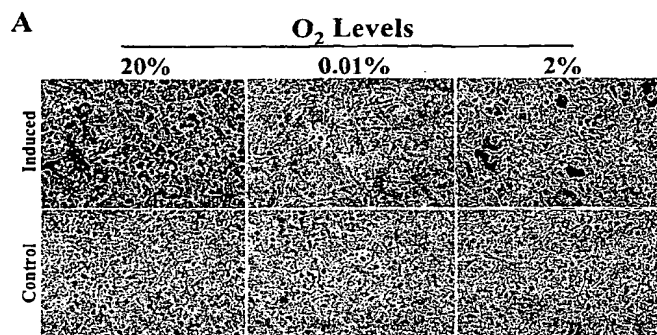
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(54) Title: METHODS AND COMPOSITIONS FOR REGULATING ADIPOGENESIS



(57) **Abstract:** According to the disclosure hypoxia-mediated adipogenic inhibition involves the repression of *PPARγ2* expression and its activity is a common mechanism for adipogenic inhibition by a variety of stimuli. The present disclosure relates to methods and compositions for regulating adipogenesis. The disclosure provides compositions comprising one or more *DEC1/Sra13* fragments of capable of inhibiting *PPARγ2* promoter activity. These fragments, e.g. the basic helix loop helix domain or amino acids 1-141, have substantially the same *PPARγ2* promoter repressing activity as the full length polypeptide. The present disclosure provides methods of inhibiting adipogenesis comprising contacting a cell with a fragment of *DEC1/Sra13*. The invention further relates to methods and compositions of inhibiting angiogenesis in a tumor comprising contacting a tumor or tumor cell with a *DEC1/Sra13* agonist.

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